Roberts, Paul

From:

Nichols, Christopher

Sent:

Wednesday, June 04, 2003 5:13 PM

To:

Roberts, Paul

Subject:

RE: Search Request

Dear Paul Roberts.

What you have is a "functionalized" medical device.

The inventors have taken organic/inorganic materials with a known structure and "functionalized" it with growth factors. For growth factors use:

530/300,350 and keywords like "neurotrophin" "FGF" "NGF" "FK506" "immunophilins"

Also try 514/2 using "nerve" AND "conduit"

In addtion, 424/198.1 using "growth factor"

Also, US 5026381 maybe good...

Here are some PubMed References.

The role of conduits in nerve repair: a review.

Doolabh VB, Hertl MC, Mackinnon SE.

Rev Neurosci 1996 Jan-Mar;7(1):47-84

A new nerve guide conduit material composed of a biodegradable poly(phosphoester).

Wang S, Wan AC, Xu X, Gao S, Mao HQ, Leong KW, Yu H.

Biomaterials 2001 May;22(10):1157-69

Finally, if possible Restriction between the three:

- 1. A polyphosphoester is a compound containing O-R-O-C-O-BenzeneRing-C-O-O-R-O-P-O-R (???)
- 2. A gene delivery agent which comprises a complex of dna and a cationic polymer or lipid. (514/2)
- 3. neurotrophic protein or a neuro-acitve neural fibre eleciting molecule. (424/198.1 or 530/300)

All three are in different classes and represent three distinct and independent search fields.

Good luck, CJN

-----Original Message-----

From:

Roberts, Paul

Sent:

Wednesday, June 04, 2003 4:52 PM

To: Subject: Nichols, Christopher FW: Search Request

----Original Message----From: Kunz, Gary

Sent: Wednesday, June 04, 2003 4:50 PM

To: Roberts, Paul

Subject: RE: Search Request

No, but Chris Nichols probably can.

----Original Message----From: Roberts, Paul

Sent: Wednesday, June 04, 2003 3:50 PM

To: Kunz, Gary Subject: RE: Search Request

I don't know of any related patents in this area. Can you suggest one?

Paul Roberts 703 305 7558 2011 S Clark St Arlington VA 22202 Crystal Plaza 2 2D08

----Original Message----

From: Kunz, Gary

Sent: Wednesday, June 04, 2003 3:46 PM

To: Roberts, Paul

Subject: RE: Search Request

The gene delivery part would be classified in 514/44. I suggest that you speak to Chris Nichols to get more info. at 305-3955. Also, I would suggest that you pull up a related patent in this area to see where others have classified it.

Gary

----Original Message-----

From: Roberts, Paul

Sent: Wednesday, June 04, 2003 3:17 PM

To: Kunz, Gary
Subject: Search Request

I am from art unit 3731. So far I have had no success finding the following device. The independent claim recites a tube (nerve guide conduit) comprising a poly(phosphoester). A polyphosphoester is a compound containing

O-R-O-C-O-BenzeneRing-C-O-O-R-O-P-O-R

Additionally, the guide contains:

a poly(phosphoester) with a porosity of 8% and a molecular weight of about 16000. The polymer contains polyethlenimine, poly-L-lysine, or chitosan, or doleoyl phosphatidylethanolamine.

It contains a gene delivery agent which comprises a complex of dna and a cationic polymer or lipid. It also contains an encoding of neurotrophic protein or a neuro-acitve neural fibre eleciting molecule.

I would like to know any subclasses to search or alternate art units to contact regarding this device.

Thank you, Paul Roberts